NC/QC/PD/MW-01/2017-18/IG2-C2 Date: 09-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : Priya
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**167 min**	Shall not be less than 30 min
2	Final setting time	**279 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.15 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.29 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.36 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/PD/MW-01/2017-18/IG2-FA1

Date: 09-04-2018

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I .	Zone-II	Zone -II	
04.75	**97.20**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.65**	60-95	75-100	85-100	
01.18	**64.80**	30-70	55-90	75-100	
600. mic	**40.95**	15.34	35-59	60-79	
300.mic	**22.30**	5-20	8-30	12-40	
150.mic	**7.85**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.70 %**	-----
2	Silt Content	----	**0.65 %**	Not more than 8%
3	Specific Gravity	----	**2.60**	------

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NC/QC/PD/MW-01/2017-18/IG2-CA1

Date: 09-04-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.25	85-100	90 - 100
10 mm	43.90	0 - 20	25 - 55
4.75 mm	2.05	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	20.65 %	Not to exceed 25 %
2.	Crushing value	25.90 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2017-18/IG2-S1

Date: 09-04-2018

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8, 12, 16 & 20 mm **TMT Steel.**
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE – 1

SL No	Details	For 08 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req as per IS 1786-2008
01	Observed diameter of bar	**8.0mm**	8.0mm	**12.0mm**	12.0mm
02	Observed Wt/m Length **Kg/m**	**0.394**	0.363	**0.891**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**541.0**	500.0	**553.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.80**	12.00	**20.20**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**620.0**	545.0	**636.0**	545.0

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2017-18/IG2-CB1

Date: 25-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}

Ref.: Material testing PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1;

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-04-18	25-04-18	07	22500	425	18.89	19.48
	002	"	"	"	"	450	20.00	
	003	"	"	"	"	440	19.56	

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NC/QC/PD/MW-01/2017-18/IG2-CB2

Date: 26-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-04-18	26-04-18	07	22500	450	20.00	19.85
	002	"	"	"	"	455	20.22	
	003	"	"	"	"	435	19.33	

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NC/QC/PD/MW-01/2017-18/IG2-SB1 Date: 28-04-2018

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks) BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	Average Compressive Strength N/mm^2
1	400 X 200 X 200	**Solid**	80000	330	4.13	**4.23**
2	,,	,,	80000	345	4.31	
3	,,	,,	80000	340	4.25	

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2017-18/IG2-SB2 **Date: 30-04-2018**

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Construction of building for Indoor games at Sy No.33 in Mallasandra Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks) BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	Average Compressive Strength N/mm^2
1	400 X 200 X 200	**Solid**	80000	335	4.19	4.13
2	,,	,,	80000	325	4.06	
3	,,	,,	80000	330	4.13	

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